

CLAIMS

What is claimed is:

1. A thermoplastic composition comprising (a) from 1 to 99 percent by weight of the total composition of a thermoplastic polymer selected from the group consisting of
5 LLDPE, HDPE, LDPE, EVA copolymer, ethylene-carboxylic acid copolymer, ethylene acrylate copolymer, polybutylene, polybutadiene, polypropylene, ethylene-propylene interpolymers, ethylene-propylene-diene monomer rubber, chlorinated polyethylene, EAA, ESI, styrene block copolymers, or a graft-modified olefin polymer, and combinations of two or more of these polymers, and (b) from 1 to 99 percent by weight
10 of the total composition of at least one low viscosity, homogeneously branched ethylene polymer having a density from 0.855 g/cc to 0.899 g/cc and a Brookfield viscosity of at least 500 cPs at 350°F.
2. The composition of Claim 1 in which the ethylene polymer is a substantially linear ethylene/ α -olefin copolymer.
- 15 3. The composition of Claim 1 in which the composition comprises at least 50 wt% of the thermoplastic polymer.
4. The composition of Claim 2 in which the substantially linear ethylene interpolymers has a density in the range of 0.860 to 0.880 g/cc.
5. The composition of Claim 2 in which component (a), a styrene block
20 copolymer, is selected from the group consisting of styrene/butadiene/styrene, styrene/isoprene/styrene, styrene/ethylene-butene/styrene and styrene/ethylene propylene/styrene.
6. A film, fiber, coating or molded article comprising the composition of Claim 1.
7. A thermoplastic blend composition comprising;

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A) from 75 to 99 weight percent (based on the total weight of the thermoplastic blend composition) of a thermoplastic polyolefin composition comprising;

5 (a) from 50 to 100 wt percent of polypropylene or HDPE or a mixture thereof; and

(b) from 0 to 50 wt percent of an ethylene/ α -olefin interpolymer having a density of less than or equal to 0.9130 g/cm^3 ; and

10 B) from 1 to 25 weight percent (based on the total weight of the thermoplastic blend composition) of an extender comprising an ethylene/ α -olefin interpolymer other than component A) (b) and having;

(a) a density of less than 0.8990 g/cm^3 ; and

(b) a Brookfield Viscosity at 350°F of at least 500 cP's;

and wherein the melt index of said thermoplastic blend composition is increased by at least 5% relative to that of said thermoplastic polyolefin composition.

15 8. The thermoplastic blend composition of Claim 7 wherein;

A) said thermoplastic polyolefin composition is present in an amount from 80 to 98 weight percent (based on the total weight of the thermoplastic blend composition); and

20 B) said extender comprising an ethylene/ α -olefin interpolymer other than component A) (b) is present in an amount of from 2 to 20 weight percent (based on the total weight of the thermoplastic blend composition) and has;

(a) a density of less than 0.8900 g/cm^3 ; and

(b) a Brookfield Viscosity at 350°F of at least 500 cP's but less than 70,000 cP's;

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and wherein the melt index of said thermoplastic blend composition is increased by at least 10% relative to that of said thermoplastic polyolefin composition.

9. The thermoplastic blend composition of Claim 7 wherein;

5 A) said thermoplastic polyolefin composition is present in an amount from 85 to 97 weight percent (based on the total weight of the thermoplastic blend composition); and

10 B) said extender comprising an ethylene/ α -olefin interpolymer other than component A) (b) is present in an amount of from 3 to 15 weight percent (based on the total weight of the thermoplastic blend composition) and has;

(a) a density of less than 0.8800 g/cm^3 ; and

(b) a Brookfield Viscosity at 350°F of at least 500 cP's but less than 40,000 cP's;

15 and wherein the melt index of said thermoplastic blend composition is increased by at least 15% relative to that of said thermoplastic polyolefin composition.